ENVIRONMENTAL PROTECTION INDICATORS FOR CALIFORNIA (EPIC)

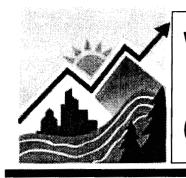


PROJECT OVERVIEW

Carmen Milanes, M.P.H.

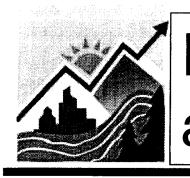
Office of Environmental Health Hazard Assessment

August 8, 2001



What is an environmental indicator?

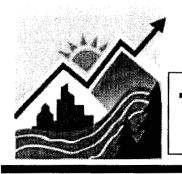
- ➤ A measure that presents scientifically based information on the status of, and trends in environmentally-related parameters.
- ➤ It has a significance extending beyond that directly associated with the parameter measured.



Environmental indicators as new tools for Cal/EPA

Environmental indicators as part of the strategic planning process: "managing toward environmental results"

- formulating policy
- allocating resources for maximum value
- making adjustments to priorities



Types of Indicators

Mission-based

assess status and trends associated with the agency's mission

= Environmental Indicators for Cal/EPA

Policy

Program performance

Program activity/efficiency

Administrative

Source: FSU/USEPA, Chemical and Pesticides

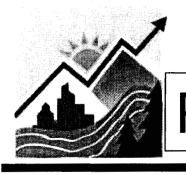
Results Measures, January 2001



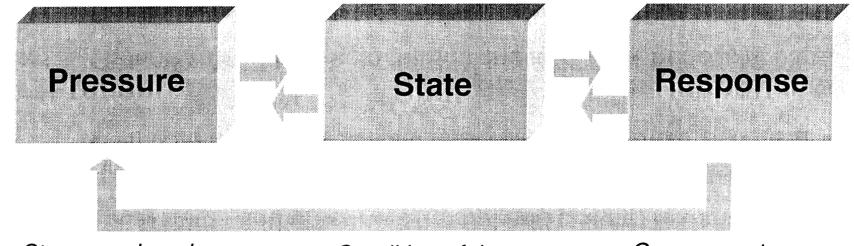
Cal/EPA Strategic Goals

www.calepa.ca.gov/Publications/Reports/stratplans/2000

- Goal 1: Air that is healthy to breathe, sustains and improves our ecosystems and preserves natural and cultural resources.
- Goal 2: Rivers, lakes, estuaries and marine waters that are fishable, swimmable, support healthy ecosystems and other beneficial uses.
- Goal 3: Groundwater that is safe for drinking and other beneficial uses.
- Goal 4: Communities that are free from unacceptable human and ecological risks due to exposure from hazardous substances and other potential harmful agents.
- Goal 5: Reduce or eliminate the disproportionate impacts of pollution on low-income and minority populations.
- Goal 6: Ensure the efficient use of natural resources.



Pressure-State-Response



Stresses placed on the environment by human activity or natural causes

Condition of the environment, human or ecological health

Government or societal actions

Source: Organisation for Economic Cooperation and Development

Hierarchy of Indicators

This is how we measure environmental change

Administrative

LEVEL 1

Actions by EPA/State Regulatory Agencies

LEVEL 2

Responses of the Regulated & Nonregulated Community

Environmental

LEVEL 3

Changes in Discharge/ Emission Quantities

LEVEL 4

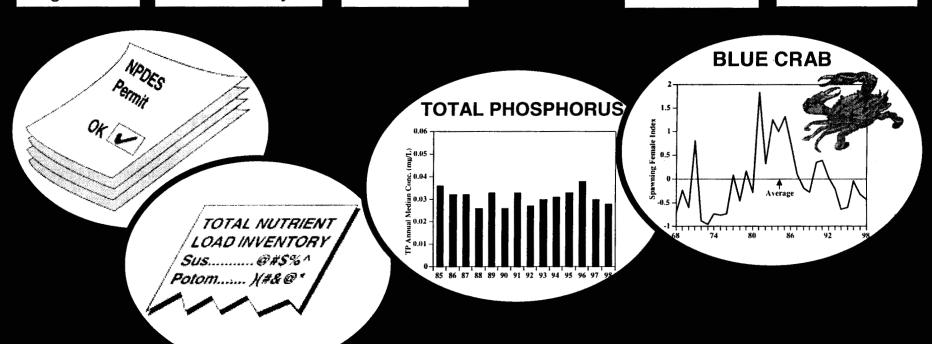
Changes in Ambient Conditions

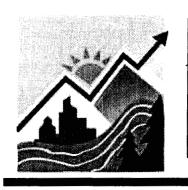
LEVEL 5

Changes in Uptake and/or Assimilation

LEVEL 6

Changes in Health, Ecology, or Other Effects





Environmental Protection Indicators for California

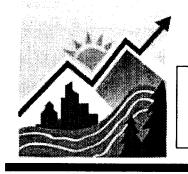
Directive:

OEHHA to collaboratively develop environmental indicators for Cal/EPA

Project's first year goal:

To develop a process for identifying environmental indicators and an initial set of indicators using an open, participatory process involving various collaborators.

⇒ Report entitled, A Framework for Cal/EPA's Environmental Indicator System



Scope of EPIC

- ✓ Reflects an issue that affects California, or a global/transboundary issue of interest to California
- ✓ Relates to the missions of Cal/EPA and areas of overlapping jurisdictions with the Resources Agency, Department of Health Services
- ✓ Measure pressures exerted on the environment by human activities, ambient environmental conditions, or effects on human or ecological health

EPIC Collaborators

Project staff

Advisory groups

Develop Report

- OEHHA
- Cal/EPA BDOs
- Dept. Health Svcs
- Resources Agency
- US EPA

Interagency Advisory Group

- Cal/EPA BDOs
- Resources Agency
- Dept. Health Svcs
- US EPA
 - Others

Input on Project

External Advisory Group

- non-profit groups
- local government
- private sector
- UC/CSU

Environmental indicator consultant

Assist in design and implementation of indicator development process

Contractors

Cal/EPA strategic vision consultant

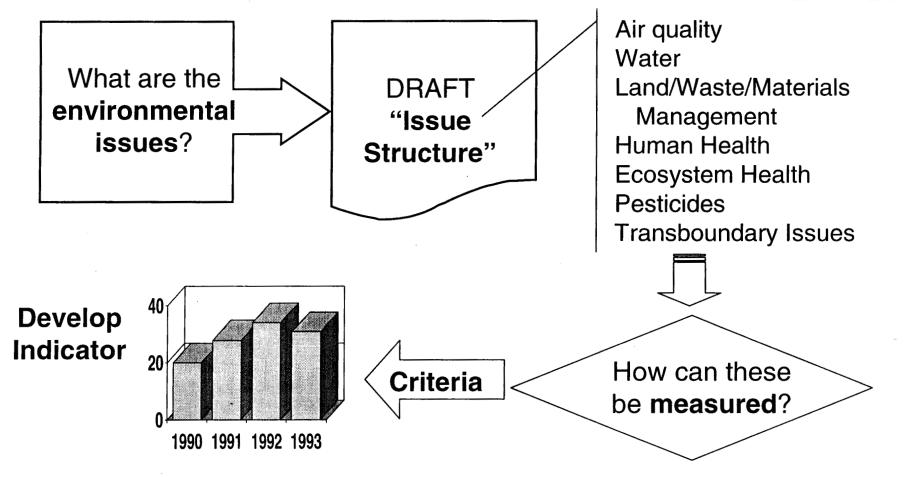
Ensure Framework is consistent with Cal/EPA needs

Stakeholder coordinator

Coordinate advisory group/ public input



Developing an "environmental indicator framework"



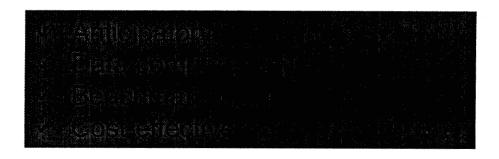


Indicator Selection

Primary criteria

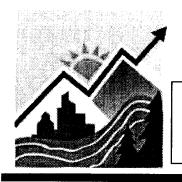


Secondary criteria



How "integrative"?





EPIC: Next steps

Maintenance of EPIC system

- continuous public input and comment on indicator system
- ongoing project staff evaluation, validation and updating of indicator system
- annual evaluation by boards/departments to ensure consistency with strategic plans

IWM Tip Fee Discount Calculation (2001)

Permitting and Enforcement Division	% of time spent on		
Branches	Total Budget	active landfills	Net Cost
Remediation, Closure & Technical Services	\$808,865	20%	\$161,773
Permitting and Inspections	\$1,882,312	80%	\$1,505,850
Facilities Operations	\$1,176,324	80%	\$941,059
LEA Support Services	\$167,977	25%	\$41,994
Total			\$2,650,676
Board's IWMA Budget	\$50,641,000		
% of Total Budget Spent on Active Landfil	ls/		
IWM Tip Fee Discount		5.2%	0

Using the discount rate of 5.2%, the discounted IWM Fee for \$1.34 would be \$1.27, and for \$1.40 it would be \$1.32.